

MODULE SPECIFICATION

Part 1: Information							
Module Title	Foundation of Business Analytics						
Module Code	UFCFKM-30-2		Level	Level 5			
For implementation from	2020-	2020-21					
UWE Credit Rating	30		ECTS Credit Rating	15			
Faculty	Faculty of Environment & Technology		Field	Computer Science and Creative Technologies			
Department	FET	FET Dept of Computer Sci & Creative Tech					
Module type:	Standard						
Pre-requisites		None					
Excluded Combinations		None					
Co- requisites		None					
Module Entry requirements		None					

Part 2: Description

Educational Aims: This module aims to introduce students to the major concepts of business analytics (supported by case studies and examples from various industries) and provide them with tools to solve simple business analytics problems. In order to achieve this, one needs to understand the underlying probability theory and statistics. Thus this module also provides a basic knowledge of statistics and probability. It introduces such concepts as random variables and probability distributions, and it covers the basics of statistical analysis and inference.

Outline Syllabus: Indicative Content:

Exploring Data - descriptive statistics, data visualisation

Probability and Modelling Uncertainty

Statistical Inference

Regression Analysis and Time Series Forecasting

Optimisation and Simulation Modelling

Introduction to Data Mining

Teaching and Learning Methods: The module is delivered through weekly combined lecture and tutorial sessions. Each session will direct the course and introduce the new ideas and skills required. Then tutorial sessions will enable each student to carry out the study and research exercises described in the associated work-sheet under the guidance of a Tutor.

The teaching material will be made available from Blackboard. A course text is also recommended. Scheduled learning includes lectures and tutorials.

Independent learning includes time engaged with essential reading and assignment preparation and completion.

Part 3: Assessment

Module assessment will be divided into:

Component A – a 2 hour exam that is summative and assesses students' understanding of concepts and techniques together with their ability to apply them

Component B1 – Portfolio of exercises that are both summative and formative, which will be hosted on a online portfolio and personal learning platform (e.g. Pebblepad). These exercises will consist of short descriptions, statistical analysis/calculations, results using appropriate diagrams/graphs and a reflective element. They are designed to test the material covered the lectures and practical sessions.

Component B2 – Group Project involving the investigation of a problem area and the development of a potential solution. Groups (e.g. 3 or 4 students) will be presented with contextual evidence and/or sample datasets as guidance. They will also develop a project proposal as well as a project plan as part of the coursework. The deliverables will consist of documentation for (i) the research into their given topic, (ii) the project proposal and planning, (iii) a report detailing the business analytics techniques used to develop the solution and a presentation to defend their proposed solution during scheduled class time.

The referral coursework will be undertaken on (i) the portfolio of exercises and (ii) an individual basis and will require the student to build upon some aspects of the group work undertaken during the module through the production of a well-integrated and complementary set of deliverables.

First Sit Components	Final Assessment	Element weighting	Description
Written Assignment - Component B		30 %	Group Coursework (max. 3000 words)
Portfolio - Component B		45 %	Portfolio of exercises
Examination (Online) - Component A	~	25 %	Online Examination 2 hours 24-hour window
Resit Components	Final Assessment	Element weighting	Description
Written Assignment - Component B		75 %	Individual coursework (max 2000 words)
Examination (Online) - Component A	~	25 %	Online Examination 2 hours 24-hour window

Learning Outcomes	On successful completion of this module students will achieve the follo	wing learning	outcomes:		
	Module Learning Outcomes				
	Demonstrate an understanding of the core concepts of business analytics				
	Demonstrate knowledge and understanding of statistical analysis inference models				
	Demonstrate knowledge and understanding of the role of probability in modelling uncertainty Identify, perform, and draw conclusions from appropriate statistical analyses of data sets using appropriate tools to solve business problems				
	Retrieve, evaluate and communicate information from a range of sou underpin academic research activities	rces to	MO5		
	Develop a business analytics solution following a project brief and pro	ng a project brief and project plan			
Contact Hours	Independent Study Hours:				
	Independent study/self-guided study 22				
	Total Independent Study Hours: 22				
	Scheduled Learning and Teaching Hours:				
	Face-to-face learning	7	2		
	Total Scheduled Learning and Teaching Hours: 7				
	Hours to be allocated	30	300		
	Allocated Hours	300			
Reading List	The reading list for this module can be accessed via the following link: https://uwe.rl.talis.com/modules/ufcfkm-30-2.html				

Part 4: Teaching and Learning Methods

Part 5: Contributes Towards

This module contributes towards the following programmes of study: Business Computing [Sep][FT][Frenchay][3yrs] BSc (Hons) 2019-20 Business Computing [Sep][SW][Frenchay][4yrs] BSc (Hons) 2019-20 Business Computing {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2018-19

Business Computing {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2018-19

Business Computing {Foundation} [Feb][FT][GCET][4yrs] BSc (Hons) 2018-19

Business Computing {Foundation} [Oct][FT][GCET][4yrs] BSc (Hons) 2018-19

STUDENT AND ACADEMIC SERVICES